LAKE: NORTH L (VLMP SCW)
TOWN: ORIENT
COUNTY: AROOSTOOK

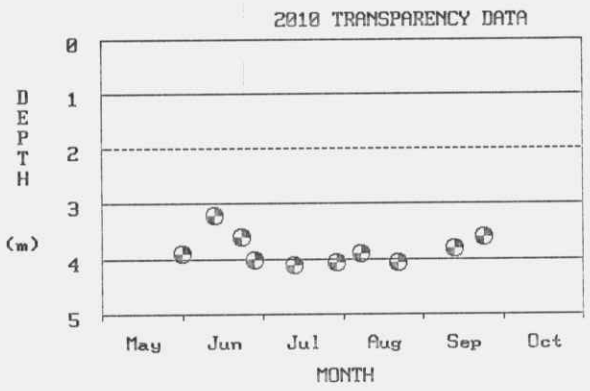
MIDAS: 1063
TRUE BASIN: 1
SAMPLE STATION: 1

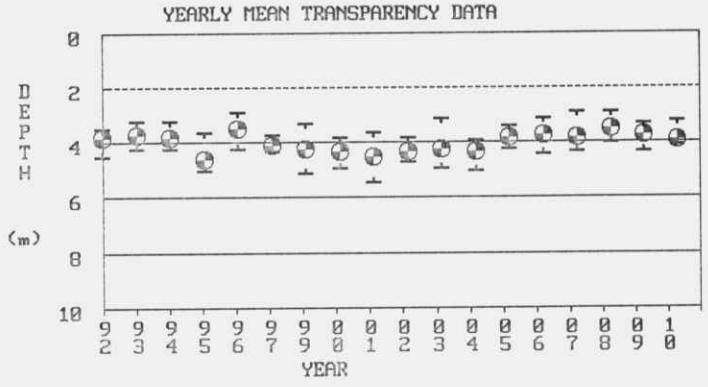
WHOLE LAKE INFORMATION
MAX. DEPTH: 14 m. (45 ft.)
MEAN DEPTH: 5 m. (16 ft.)
DELORME ATLAS #: 53
USGS QUAD: ORIENT
IFW REGION F: Penobscot (Enfield)
IFW FISH. MANAGMENT: Warmwater & Coldwater

TRUE BASIN CHARACTERISTICS
SURFACE AREA: 392.8 ha. (970.6 a.)
FLUSHING RATE: 7.31 flushes/yr.
VOLUME: 11785500.0 cu. m. (9560 ac.-ft.)
DIRECT DRAINAGE AREA: 150.22 sq. km. (58.00 sq. mi.)

PLEASE NOTE THE FOLLOWING: The SAMPLE STATION # refers to the location sampled. The term TRUE BASIN is used to define areas within a lake that are separated by shallow reefs or shoals and therefore function as separate lakes. There are approximately 50 lakes in the state that have more than 1 True Basin. True Basin Characteristics are now being included in the first section of these reports to enable users of the Phosphorous Loading Methodology to better evaluate the data. If there is no data for a particular True Basin, True Basin Characteristics must be obtained from the DEP. NORTH L has 1 True Basin(s).

SECCHI DISK TRANSPARENCY GRAPHS:





Note: 2010 graphs may indicate multiple readings taken on a given day.

SUMMARY OF CHEMICAL AND TROPHIC STATE PARAMETERS:

[* indicates that Secchi disk was visable at bottom of lake (or one reading used in calculation was visable)].

	MEAN COLOR	MEAN pH	MEAN ALK	MEAN COND.	TOTAL PHOS. MEANS (ppb)				SECCHI DISK (m.)				CHLOROPHYLL A(ppb)			TROPHIC STATE INDICES EPI PHOS			
	(SPU)		(mg/l)	(uS	EPI	SURF	BOT.	PRO.											
YEAR				/cm)	CORE	GRAB	GRAB	GRAB	MIN.	MEAN	MAX.	N	MIN.	MEAN	MAX.	C	G	SEC	CHL
1992	-	-	-	-	-	-	-	-	3.5	3.8	4.5	6	-	-	-	-	-	-	-
1993	-	-	-	-	-	-	-	-	3.2	3.7	4.2	4	-	-	-	-	-	-	-
1994	-	-	-	-	-	-	-	-	3.2	3.8	4.2	5	-	-	-	-	-	-	-
1995	-	-	-	-	-	-	-	-	3.6	4.6	5.0	4	-	-	-	-	-	-	-
1996	55	-	-	-	-	-	-	-	2.9	3.5	4.2	5	-	-	-	-	-	-	-
1997	-	-	-	-	-	-	-	-	3.7	4.1	4.3	5	-	-	-	-	-	-	-
1999	-	-	-	-	-	-	-	-	3.3	4.2	5.1	5	-	-	-	-	-	-	-
2000	-	-	-	-	-	-	-	-	3.8	4.3	4.9	4	-	-	-	-	-	-	-
2001	-	-	-	-	-	-	-	-	3.6	4.5	5.4	4	-	-	-	-	-	-	-
2002	-	-	-	-	-	-	-	-	3.8	4.3	4.7	4	-	-	-	-	-	-	-
2003	-	-	-	-	-	-	-	-	3.1	4.2	4.9	4	-	-	-	-	-	-	-
2004	-	-	-	-	-	-	-	-	3.9	4.3	5.0	4	-	-	-	-	-	-	-
2005	-	-	-	-	-	-	-	-	3.4	3.8	4.2	4	-	-	-	-	-	-	-
2006	49	7.36	17.4	45	9	-	-	-	3.1	3.7*	4.4	5	-	-	-	-	-	-	-
2007	-	-	-	-	-	-	-	-	2.9*	3.8*	4.3	5	-	-	-	-	-	-	-

LAKE: NORTH L (VLMP SCW)
TOWN: ORIENT
COUNTY: AROOSTOOK

MIDAS: 1063
*TRUE BASIN: 1
*SAMPLE STATION: 1

SUMMARY OF CHEMICAL AND TROPHIC STATE PARAMETERS:

	MEAN COLOR (SPU)	MEAN pH	MEAN ALK (mg/l)	MEAN COND. (uS /cm)	TOTAL PHOS. MEANS (ppb) EPI CORE	SURF GRAB	BOT. GRAB	PRO. GRAB	SECCHI DISK (m.) MIN.	MEAN	MAX.	N	CHLOROPHYLL A(ppb) MIN.	MEAN	MAX.	TROPHIC STATE INDICES EPI PHOS C	G	SEC	CHL
YEAR																			
2008	-	-	-	-	-	-	-	-	2.9	3.5*	4.0	5	-	-	-	-	-	-	-
2009	-	-	-	-	-	-	-	-	3.3*	3.7*	4.3	5	-	-	-	-	-	-	-
2010	-	-	-	-	-	-	-	-	3.2	3.9*	4.1	5	-	-	-	-	-	-	-
SUMMARY:	52	7.36	17.4	45	9	-	-	-	2.9*	4.0*	5.4	18	-	-	-	-	-	-	-

LATE SUMMER TEMPERATURE / DISSOLVED OXYGEN PROFILES:

	SAMPLE DATE	
DEPTH	08/24/06	
m	°C	ppm
0.0	20.5	8.6
1.0	20.4	8.6
2.0	20.4	8.5
3.0	20.1	8.3
4.0	19.8	8.1
5.0	19.5	7.9
6.0	19.5	7.9
7.0	19.4	7.8

WATER QUALITY SUMMARY

NORTH POND, Orient
Midas: 1063, Station: 01 (U.S. side)

The Maine Department of Environmental Protection (ME-DEP) and the Volunteer Lake Monitoring Program (VLMP) have collaborated in the collection of lake data to evaluate water quality, track algal blooms, and determine water quality trends. This dataset does not include bacteria, mercury, or nutrients other than phosphorus.

Water quality monitoring data for North Pond has been collected since 1992. During this period, basic chemical information was collected one year in addition to Secchi Disk Transparencies (SDT). In summary, the water quality of North Pond to be appears to be average, based on measures of SDT and Total Phosphorus (TP). The potential for nuisance algal blooms on North Pond is moderate.

Water Quality Measures: North Pond is a moderately colored lake (average color 49 SPU) with an average SDT of 4.1 (13.4ft). Some SDT readings hit the bottom of the lake and are thus an underestimate of water quality. The one TP reading available from this station was 9 parts per billion (ppb). The one dissolved oxygen (DO) profile that has been collected from this station does not indicate any DO depletion at that sampling station; because no profiles have been collected from the deepest spot, it is impossible to speculate whether or not phosphorus release from sediments is of concern or if there has been habitat loss for coldwater fish species.

See ME-DEP Explanation of Lake Water Quality Monitoring Report for measured variable explanations. Additional lake information can be found on the Internet at http://www.lakesofmaine.org/ and/or http://www.maine.gov/dep/blwq/lake.htm, or telephone the ME-DEP at 207-287-3901 or the VLMP at 207-783-7733.

Filename: Nort1063_01, Revised: 12/06, By: lb

LAKE: NORTH L (VLMP SCW)
TOWN: ORIENT
COUNTY: AROOSTOOK

MIDAS: 1063
TRUE BASIN: 1
SAMPLE STATION: 2

WHOLE LAKE INFORMATION
MAX. DEPTH: 14 m. (45 ft.)
MEAN DEPTH: 5 m. (16 ft.)
DELORME ATLAS #: 53
USGS QUAD: ORIENT
IFW REGION F: Penobscot (Enfield)
IFW FISH. MANAGMENT: Warmwater & Coldwater

TRUE BASIN CHARACTERISTICS
SURFACE AREA: 392.8 ha. (970.6 a.)
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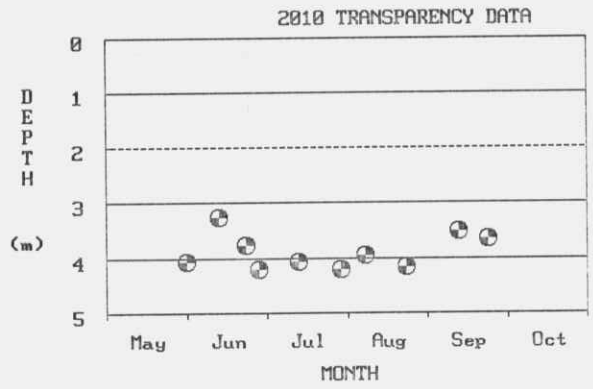
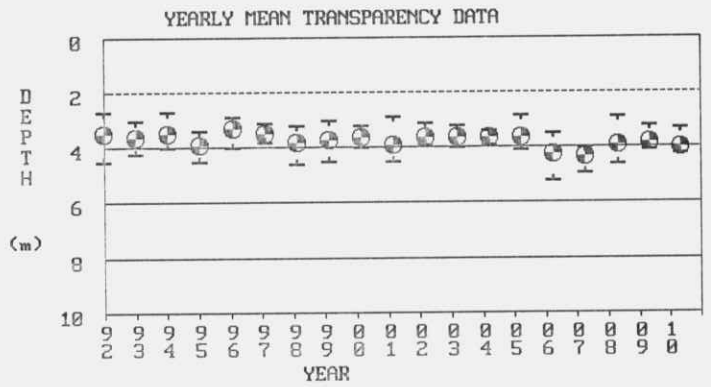
SECCHI DISK TRANSPARENCY GRAPHS:





Note: 2010 graphs may indicate multiple readings taken on a given day.

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[* indicates that Secchi disk was visable at bottom of lake (or one reading used in calculation was visable)].

	MEAN COLOR (SPU)	MEAN pH	MEAN ALK (mg/l)	MEAN COND. (uS /cm)	TOTAL PHOS. MEANS (ppb) EPI CORE	SURF GRAB	BOT. GRAB	PRO. GRAB	SECCHI DISK (m.) MIN.	MEAN	MAX.	N	CHLOROPHYLL A(ppb) MIN.	MEAN	MAX.	TROPHIC STATE INDICES EPI PHOS C	G	SEC	CHL
YEAR																			
1992	-	-	-	-	-	-	-	-	2.7*	3.5*	4.5	6	-	-	-	-	-	-	-
1993	-	-	-	-	-	-	-	-	3.0*	3.6*	4.2	4	-	-	-	-	-	-	-
1994	-	-	-	-	-	-	-	-	2.7	3.5*	4.0	5	-	-	-	-	-	-	-
1995	-	-	-	-	-	-	-	-	3.4	3.9*	4.5	4	-	-	-	-	-	-	-
1996	-	-	-	-	-	-	-	-	2.9*	3.3*	4.0	5	-	-	-	-	-	-	-
1997	-	-	-	-	-	-	-	-	3.1	3.5*	3.8*	5	-	-	-	-	-	-	-
1998	-	-	-	-	-	-	-	-	3.2	3.8	4.6	5	-	-	-	-	-	-	-
1999	-	-	-	-	-	-	-	-	3.0	3.7	4.5	5	-	-	-	-	-	-	-
2000	-	-	-	-	-	-	-	-	3.2	3.6*	4.0	4	-	-	-	-	-	-	-
2001	-	-	-	-	-	-	-	-	2.9*	3.9*	4.5	4	-	-	-	-	-	-	-
2002	-	-	-	-	-	-	-	-	3.1	3.6*	3.9	4	-	-	-	-	-	-	-
2003	-	-	-	-	-	-	-	-	3.2*	3.6*	4.0	4	-	-	-	-	-	-	-
2004	-	-	-	-	-	-	-	-	3.4*	3.6*	3.9*	4	-	-	-	-	-	-	-
2005	-	-	-	-	-	-	-	-	2.8	3.6*	4.1	4	-	-	-	-	-	-	-
2006	-	-	-	-	-	-	-	-	3.5	4.2	5.2	5	-	-	-	-	-	-	-

LAKE: NORTH L (VLMP SCW)
TOWN: ORIENT
COUNTY: AROOSTOOK

MIDAS: 1063
*TRUE BASIN: 1
*SAMPLE STATION: 2

SUMMARY OF CHEMICAL AND TROPHIC STATE PARAMETERS:

	MEAN COLOR (SPU)	MEAN pH	MEAN ALK (mg/l)	MEAN COND. (uS /cm)	TOTAL PHOS. MEANS (ppb) EPI CORE	SURF GRAB	BOT. GRAB	PRO. GRAB	SECCHI DISK (m.) MIN.	MEAN	MAX.	N	CHLOROPHYLL A(ppb) MIN.	MEAN	MAX.	TROPHIC STATE INDICES EPI PHOS C	G	SEC	CHL
YEAR																			
2007	-	-	-	-	-	-	-	-	4.0	4.3	4.9	5	-	-	-	-	-	-	-
2008	-	-	-	-	-	-	-	-	2.9	3.9	4.6	5	-	-	-	-	-	-	-
2009	-	-	-	-	-	-	-	-	3.2	3.8	4.1	5	-	-	-	-	-	-	-
2010	-	-	-	-	-	-	-	-	3.3	4.0	4.2	5	-	-	-	-	-	-	-
SUMMARY:	-	-	-	-	-	-	-	-	2.7*	3.7*	5.2	19	-	-	-	-	-	-	-

WATER QUALITY SUMMARY

NORTH POND, Orient
Midas: 1063, Station: 02 (Canada)

The Maine Department of Environmental Protection (ME-DEP) and the Volunteer Lake Monitoring Program (VLMP) have collaborated in the collection of lake data to evaluate water quality, track algal blooms, and determine water quality trends. This dataset does not include bacteria, mercury, or nutrients other than phosphorus.

Water quality monitoring datasets for North Pond have been collected since 1992. During this period, no basic chemical information has been collected from this station, only Secchi Disk Transparencies (SDT). In summary, the water quality of North Pond to be appears to be average, based on measures of SDT. The potential for nuisance algal blooms on North Pond is moderate.

Water Quality Measures: Data from Station 01 indicate that North Pond is a moderately colored lake (average color 49 SPU). Station 02 on North Pond has an average SDT of 3.7 (12.1ft); some Secchi disk readings hit the bottom of the lake thus causing SDTs to be an underestimate of water quality. The one TP reading available from Station 01 was 9 parts per billion (ppb). The one dissolved oxygen (DO) profile that has been collected, also from Station 01, does not indicate any DO depletion at that sampling station; because no profiles have been collected from the deepest spot, it is impossible to speculate whether or not phosphorus release from sediments is of concern or if there has been habitat loss for coldwater fish species.

See ME-DEP Explanation of Lake Water Quality Monitoring Report for measured variable explanations. Additional lake information can be found on the Internet at http://www.lakesofmaine.org/ and/or http://www.maine.gov/dep/blwq/lake.htm, or telephone the ME-DEP at 207-287-3901 or the VLMP at 207-783-7733.

Filename: Nort1063_02, Revised: 12/06, By: lb